

Appl. No. Unknown

Amdt. Dated September 7, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A data network management system for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network, said system comprising:

a data communication means for periodically polling ~~communicating with an said agent at said service node and for retrieving a user access list from said agent, said user access list including at least one data network address corresponding to at least one user node in said data network;~~

a database for maintaining an authorized access list for said service node; and

a data processing means for comparing said user access list to said authorized user access list and for updating said authorized user access list; said authorized user access list being maintained in said database, an updated authorized user access list based on an updated user access list for said agent.

2. (Currently Amended): A The data network management system as

Appl. No. Unknown

Amdt. Dated September 7, 2004

defined in claim 1, wherein said agent is a Simple Network Management Protocol agent.

3. (Currently Amended): A The data network management system as defined in claim 1, wherein said data communication means is a Simple Network Management Protocol communication means.

4. (Currently Amended): A The data network management system as defined in claim 1, further including means for installing ~~an~~ said agent at said service node, said agent having means to communicate with said data communication means.

5. (Currently Amended): A method for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network, of said steps comprising:

a) ~~retrieving~~ periodically polling an agent and retrieving a said user access list, for a given period of time, from ~~an~~ agent at said service node in said data network;

b) comparing said user access list to an authorized access list;

c) determining if said unauthorized access occurred based on said comparison step b);

d) if determined that said unauthorized access occurred in step c), initiating a notification process.

~~e) determining an unauthorized access based on said~~

Appl. No. Unknown

Amdt. Dated September 7, 2004

~~comparison step b),~~

~~— d) if unauthorized access determined in step c), initiating
a notification process.~~

6. (Currently Amended): A The method as defined in claim 5, further including a step of updating said authorized access list based on an updated user access list provided by said agent.

7. (Currently Amended): A The method as defined in claim 5, further including a step of installing said agent at said user node, prior to ~~retrieving~~ periodically polling and retrieving said user access list in step a).

8. (Currently Amended): A The method as defined in claim 5, further including a step of selecting said service node for identification based on a predetermined criteria, prior to retrieving said user access list in step a).

9. (Currently Amended): A The method as defined in claim 5, wherein said notification process further including a step of notifying a Network Operations Console.

10. (Currently Amended): A The method as defined in claim 5, wherein steps a) through c) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network.

11. (Currently Amended): A The method as defined in claim 5, wherein steps a) through d) are repeated, and wherein said user

Appl. No. Unknown

Amdt. Dated September 7, 2004

node is selected from one of a plurality of user nodes in said data network.

12. (Currently Amended): ~~A~~ The method as defined in claim 5,
wherein said agent is a Simple Network Management Protocol
agent.

13. (Currently Amended): A computer-readable medium for
identifying unauthorized access to a data network service,
provided at a service node in a data network, by a user node in
said data network, said service node having an agent and having
means for maintaining a user access list, said user access list
having at least one data network address corresponding to at
least one user node in said data network, and said medium having
stored thereon, computer-readable and computer-executable
instructions which, when executed by a processor, cause said
processor to perform steps comprising:

a) periodically polling an agent and retrieving said user
access list, for a given period of time, from said service node
in a data network;

b) comparing said user access list to an authorized access
list;

c) determining if said unauthorized access occurred based
on said comparison step b);

d) if determined that said unauthorized access occurred in
step c), initiating a notification process.

~~a) retrieving a user access list, for a given period of time,~~
~~from an agent at a service node in a data network;~~

~~b) comparing said user access list to an authorized access~~

Appl. No. Unknown

Amdt. Dated September 7, 2004

~~list,~~

~~— c) determining an unauthorized access based on the
comparison step b),~~

~~— d) if unauthorized access determined in step c), initiating
a notification process.~~

14. (Currently Amended): ~~A~~ The computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions which perform a step of updating said authorized access list based on user access information.

15. (Currently Amended): ~~A~~ The computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions which perform a step of installing said agent at said user node, prior to retrieving said user access list in step a).

16. (Currently Amended): ~~A~~ The computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions wherein said steps a) through c) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network.

17. (Currently Amended): ~~A~~ The computer-readable medium as defined in claim 13, wherein said agent is a Simple Network Management Protocol agent.

18. (Currently Amended): ~~In a~~ A computer for use in a data

Appl. No. Unknown

Amdt. Dated September 7, 2004

network for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network,
said computer comprising:

a storage means;

a central processing unit;

a data communication means for periodically polling said agent at said service node and retrieving a user access list from said agent; ~~for communicating with an agent at a service node and for retrieving a user access list from said agent, said user access list including at least one data network address corresponding to at least one user node in said data network;~~

said storage means having a database for maintaining an authorized access list for said service node; and

a data processing means for comparing said user access list to said authorized user access list and for updating said authorized user access list, said authorized user access list being maintained in said database, an updated authorized user access list based on an updated user access list for said agent.

19. (New): The data network as defined in claim 1, wherein said authorized user access list is a common authorized user access list, and wherein said common authorization user access list includes a range of user nodes for comparing to said user access list to determine if said user access list is a subset of said common authorization user access list.

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